

WHAT IS CLAIMED IS:

1. A circuit for detecting an electric current constructed to detect a peak value of an input current using a diode having a cathode connected to an input side and an anode connected to an output side and a capacitor having one end connected to the anode of the diode and the other end being grounded, wherein the circuit further comprises a zener diode having an anode connected to the anode of the diode and a cathode being grounded.
2. A circuit for detecting an electric current constructed to detect a peak value of an input current using a diode having a cathode connected to an input side and an anode connected to an output side and a capacitor having one end connected to the anode of the diode and the other end being grounded, wherein the circuit further comprises a shunt resistor having one end connected to the anode of the diode and the other end being grounded.
3. A circuit for detecting an electric current constructed to detect a peak value of an input current using a diode having a cathode connected to an input side and an anode connected to an output side and a capacitor having one end connected to the anode of the diode and the other end being grounded, wherein the circuit further

comprises:

a zener diode having an anode connected to the anode of the diode and a cathode being grounded; and

a shunt resistor having one end connected to the anode of the diode and the
5 other end being grounded.